INVENTIONS BY NAVAL MEN.

Millions Saved to the Government By Their Inventions and Devices.

navy was the construction of the modern light power rifles, requiring in their design a high order of mathematical ability and an intimate knowledge of the characteristics of modern steel. All guns in the navy have been designed by Professor Philip A. Alger, a former graduate of Annapolis, who has since been transferred to the corps of the professors of mathematics in the navy, and who is the highest authority on ordinance matters in this country, if not in the world Professor Alger received a diploma from the mayy.

In order to make these guns efficient, methods had to be devised for handling them on carriages for sighting and training, protecting them with armor, supplying them with powder and shell, developing smokeless powder for their use, designing primers, tuses, telessories used in connection with their service. It was also necessary to pro-

ressories used in connection with their ervice. It was also necessary to proservice. It was also necessary to pro-vide the necessary appliances for using the modern automobile torpedoes to be fired from our ships and torpedo boats; apparatus for signaling orders from the coming tower to the guns and to every part of the ship, for measuring the distance of the chemy, for countermining harbors and clearing channels, and many other devices more or less directly connected with the ships as a fighting machine.

MILLIONS SAVED.

To perfect these defices in foreign navies the governments have had to pay millions of deltars for improve-ments and inventions that tended to make their guns and ships more powerful, in their keen competition for supremacy. In this country, the home of the inventor, our government has paid little or nothing. Nearly every improvement has been invented by its rayal officers. gaval officers. One instance of a naval officer who received a compensation for an invention was that of Chief Constructor Wilson, now retired to whom the navy department paid \$19,000 for an air port-hinge. But most of the work of naval officers' brains has been

diven to the government free.

How much the inventive faculty of is keen-minded officers has meant to be navy department is illustrated in he case of Lieutenant Frank F. Fletcher, now on duty in the ordnance bureau. It was said at a hearing before a committee of the senate last winter, on a bill to give naval inventors compensation, that a gun-mount of Mr. Fletcher's had saved the government more than \$500,000. All rapid-fire guess are now placed upon this curment more than \$500,000. All rapid-fire guns are now placed upon this gunmount, and the World's fair commission awarded it a diploma. Briefly described, and without technical terms, this gun-mount is the application of ball bearings to the upper carriage of the gun, with a hydraulic to take up the recoil after firing, and a spiral spring to return it to its place. There is also elevating and training goar of a compileated character.

FLETCHER'S MANY INVENTIONS. Mr. Fletcher is the inventor of sev-

The first essential step in the modern | ery, but Fletcher's device enabled this navy was the construction of the mod- to be done by hand power by one man,

now at Ker West, recovering from younds received while in command of the Winstow at Carderas. It was, in fact, Lieutenent Bernadou and Commander C. A. Converse, now in command of the Montgomery, who invented the smokeless powder just adopted by the navy department. The navy is particularly proud of this achievement. Foreign governments possess smokeless power, but it contains nitro-glycerine, which makes it uncombase or done. which makes it unremable and danger-ous, and, besides, developes a high heat, which soon rules the gun. All countries have been working for the ideal anokeless powder containing no mitroglycerine, and we are the first to get it. As in many other matters, our navy

department stayed behind Europe in the adoption of a smokeless powder un-til we had one that was perfect. Lieutenant B. A. Fiske, a prolific in-ventor in electric devices, made, some years ago, a range finder for automat-ically finding distances at sea. It is one of the most useful contrivances on ship-bard, and is worth an immense sum to

SIGSBEE AN INVENTOR.

Captain Sinsbee of the St. Paul is an inventor. The navy now uses a deep-sea sounding apparatus and parallel rulers for pavigation of his invention. Lieutenant Dashiell invented a breech mechanism which was a great improve-ment on all that had preceded it. It was adopted by the navy department in 1892, and was introduced on many rapid-fire guns. This device enabled the man at the breech of the gun to do with one motion what had always taken two. In the old breech mechanism, the plug had to be turned with one motion until it unlocked, and then withdrawn with another motion. But by an arrang ment of cogs, L'eutenant Dashiell made the pull of a lever turn Mr. Flistcher is the inventor of several other devices. One of these is a breat of cogs, Leutenant the pull of a lever turn the plug antil it was unlocked and then breich mechanism for heavy guns. This mechanism is used for bandling affiled turned it until it locked. The Dashiell mach the plug home, and then turned it until it locked. The Dashiell mechanism has been supplanted by the light-inch, ten-inch, 12-inch and its found on some rapid-fire guns.

By an priarg ment of cogs, Leutenant turned its ever turn the plug antil it was unlocked and then turnet placed on top of a 13-inch turnet placed on the battleships Kearange as used on the battleships Kearange and Kentucky, which were launched and kentucky, which



which is of the same class as the well-known Hotchkies gun. It is applied to 1-pounder and 6-pjounder guns. This invention is owned by a private corporation, unlike most of the navy inventions which belong to the government. Commodore John A Howell is the inventor of the automobile torpedo, which bears his name. Its mechanism consisted chiefly of a heavy cog-wheel made to revolve at a high rate of speed hefore the torpedo is put in the water. Commodore Howell soid this invention to the Hotchkies company and for a time drew a royalty on it. Of late it has been supplianted by the Whitchead Masson was the same at a time depends on the ship so that when the peoper, and Professor C. E. Munroe of the hary is the inventor of the hary is thrown into the water, the combination of the chemical with the water makes a bright flame.

Lieutenant Very, late of the navy the latent of the carbon to invention which have a strikes the water, the combination of the chemical with the water makes a bright flame.

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orpedo. Lieutenant Joseph Strauss is the inventor of improvements in mounting turnet guns. He conceived the idea of

Mason were the inventors of an in-genious electric steering gear. Lieu-tenant Fiske and Lieutenant Lucier Young are the joint inventors of a

of American ideas in royalties on the inventions of American naval officers.

LAGOON, TONIGHT.

Blowing Up the "Maine." Afternoon trains 1:00, 2:00, 3:00, 4:00, 5:30, 6:30, 7:30 and 8:30 p. m.

Experience is the best Teacher. Use Acker's English Remedy in any case of coughs, colds or croup. Should it fall to give immediate relief, money refunded. 25 cts. and 50 cts. For sale by Z. C. M. I. Drug Dept.

MARVELOUS CALCULATIONS.

Peculiar Arithmetical Powers of An Illiterate Man.

Although the public has heard some thing of Rube Field, the mathematical prodigy of Hazel Hill, what has been said and written of him has generally been suessed at. He is the mathematical wonder of the world, as regards calculations. Rube is as illiterate as a savage and can instantly solve any mathematical problem. He would not recognize his name if it were placed before him in type three feet high, nor can he tell a figure seven from a cipher, yet he can tell how many grains of wheat piled upon each other would reach the sun, if you gave him the distance from the earth to the sun. Such a problem he considers quite simple, and will announce the answers by the time you have concluded the question. Rube is not easily engaged in conversation, and there is not a person in the world to whom he would confide his secrets. No more to his mother than to you. He believes that all mankind is in leasue to take from him his gift, or, as he puts it, his "mystery." He regards every man in the same way, and that ungovernable fear will no doubt keep him out of sight of the public, as it has for the last 20 years.

Though he is mercenary to a degree in his dealings, he does not seem to said and written of him has generally

Though he is mercenary to a degree in his dealings, he does not seem to possess any special desire for riches, but rather evinces the desire to see "fools," as he calls the human family, put to some expense on his account. It makes him feel big to have men hire him to be interviewed, and yet he will not make a public exhibition of himself—another evidence of his unusual composition.

He cannot tell how he manipulates figures and computes numerals as with a thought, and his inability to explain bothers him least of all who are aware of the fact. He says he is aware, if he could write an arithmetic with his system of calculation as a basis, he "could make more money than ten railroads," but he can't do it, and doesn't care anything about it. He is satisfied with his lot, and has great plans for the future. It is his belief that he came into this world to herald to men that beyond their vision of the science of numbers lies the key to all the mysteries of life. The great work he is to do upon earth has not been outlined to him by the Omniscient, but will be.

A FEW INTRICATE SUMS.

it, and, though he may not undersand words he hears, he will use them in the same or a similar sense to that in which they were used when he heard them. By this means he has a vocabulary far in advance of other illiterates.

Speaking of his youth, he said he remembered no change, so far as his knowledge of things is concerned, since his 7th year, at which time he came into possession of his "mystery." He is not fond of his relatives, who, he believe, would make a fortune at his expense if he were not so smart as to prevent it. They used to call him a fool, and he hasn't forgiven them for that.—Kansas City Times.

Discovered By a Woman.

A FEW INTRICATE SUMS.

Taking him unawares, I asked:
"Can you add 26,896,432 to 1,938,548 to 69,508,624,138 to 1,846,023,001 to 14,374 without stopping to figure?"
"That makes 71,473,495,494," said he on the instant, and then he laughed at

the instant, and then he laughed at my surprise.

As I called the numbers to him he added them, having the aggregate of the first two before I had finished the third, and of the whole while I caught my breath after enumerating them. Then I read him a column of figures ranging from tens to hundreds of thousands, the length of a sheet of legal cap, and he had furnished me an accurate aggregate the moment I finished.

Such an evidence of unexplained power will astonish the most credulous, but what must one think when such a character says he is a living walking, chronometer, and proves the same before you can dispute it. He mistrusts all men, and a financial consideration, together with the induces and might cost us two or three battlesideration, together with the inducements of acquatintances, is necessary to set his tongue going, which done, he keeps you busy listening, for he talks like a torrent rushes, swears with the fury of a cyclone and calculates with the rapidity of electric puisations. I employed him to be interviewed for one hour, and desiring to test him as to his knowledge of time without giving him an opportunity to consult a timepiece, I asked:

"What is the time now, professor?" (He delights to be called "professor.")

"Twenty-five and one-querter minutes after 3," he replied. I reached for

my watch to see if he was right, and before I could see he said. "Your watch is one and one-quarter fast."

"How do you know?" I asked.
"I can't tell you, but I am right," he said. And so he was as the Western Union regulator proved. I then concluded to test him further, and resolved that I would say nothing of it when his hour was enacd, and note if he knew it. Imagine my surprise, when in the middle of a problem he stopped me and announced that his time was up. Consulting my watch I found him right to a second.

EXAMPLES OF REMARKABLE

EXAMPLES OF REMARKABLE SIGHT. Previous to that I had asked him the time in St. Petersburg, and he stated it correctly, saying that he was conscious of the degrees of longitude and initiate in all his calculations of time. He knows their location and can answer any question of time whenever asked. Often he has been aroused from sound sleep, and upon being asked the time would state it acurately while rubbing his eyes.

Reading the dial plate of a clock in Berlin, he says, is no more trouble to him than that of a watch in my pocket, and in this he brings proof of the assertion that he is conscious of every correct clock tick in the world, whether sleeping or awake. You may take him by surprise, and after stating that the distance from Kansas city to New York and the dimensions of a locomotive drive wheel, allowed a stated loss for allocations of a locomotive drive wheel, allowed a stated

motive drive wheel, allowed a stated loss for slipping of the wheel in each mile traveled, and h- will instantly tell you how many revolutions the wheel will make in traveling that dis-

His memory is almost as remakable as his calculating genius. Having heard any statement he will remember it, and, though he may not undersand words he hears, he will use them

Discovered By a Woman,

Discovered By a Woman.

Another great discovery has been made, and that, too, by a lady in this country. "Disease fastened its clutches upon her, and for seven years she withstood its severest tests, but her vital organs were undermined, and death seemed immineut. For three months she coughed incessantly, and could not sleep. She finally discovered a way to recovery, by purchasing of us a bottle of Dr. King's New Discovery for Consumption, and was so much relieved on, taking first dose, that she slept all night; and with two bottles, has been absolutely cured. Her name is Mrs. Luther Lutz. Thus writes W. C. Hamnick & Co., of Shelby, N. C. Trial bottles free at Z. C. M. I. drug store. Regular size 50c and \$1. Every bottle guaranteed.

+ THERE'S ECONOMY IN BUYING +

Children's Dresses ready to wear. You get prettier styles and save money and labor. See them this week.

(IIILV) VREDE, A pretty little child's dress of fast colored gingham in checks and stripes, reatly trimmed in braid. Made of fast colored plaid gingham,

SPLENDID STYLES AT 500 EACH

These are beautiful little dresses for children 1 to 4 years old, made of We are showing a magnificent assort-Our price for this week 500 These are matchless bar- \$1.50

MISSES' WRITE DRESSES.

make home sewing an extravagance, this city. See them this week!

MISSES' DRESSES.

14 years, don't miss this number. It's a rare bargain for RSC

AT \$1.50 EACH.

fast colored materials, pretty and ment of children's dresses in sizes 4 stylish designs. You can't duplicate in fine Foulards, Madras cloth and any of them at less than 75c each. Zephyr Gingham, elegantly trimmed.

Without a doubt the greatest bar-A beautiful line of neat, desirable gains in ready to wear dresses for styles in all sizes, at prices which misses 4 to 14 years ever shown in

All Short Lines Must be Closed Out at Once. Notice these Prices:

Ladies' fine kid button shoes, our \$3.00 quality,

One lot ladies' tan Oxfords, \$3.50 quality, Sale price \$2.15

Curtis & Wheeler ladies' high grade Oxfords. \$3.50 quality, Sale price \$1.98

Ladies' fine tan Oxfords, turns, were \$2.25,

Sale price \$1.24

Good grade ladies' tan Oxfords, valued at \$1.75, 84c. Ladies' black Oxfords, pat tip, All sizes, cheap "

Misses' tan shoes, lace and button at half price. 111/2 to 2, \$1.15. 81/2 to 11, 98c. 6 to 8, 85c

Ladies' white canvas Oxfords. 50c Pair.

Macha

find splendid opportunities for buying bright, NEW GOODS, worth double tomorrow and throughout the week.

SHIRT WAISTS == did value. Our assortment of styles and Every Waist advertised below is a splen-Materials and Low Prices on Shirt Waists cannot be equalled in the city.

29c EACH.

90c AND \$1.00 EACH.

39c EACH.

47 Dozen Ladies' Fancy Striped in Checks, Plaids, Stripes, etc., nice fitting, large assortment of colors.

BALANCE OF OUR

NOVELTY WAISTS

120 Dozen Nobby Shirt Waists, splendid fitting, in large variety of

patterns and shades.

\$1.25 EACH.

At this price we'll offer some cx-ceptional values in nobby, stylish cheviots, etc., at further REDUCED in large and beautiful array of color-patterns from best manufacturers.

59c EACH.

A SPECIAL GRAND SALE OF PARASOLS m In black, white and colors. In order to This week at \$1.59 reduce the largest stock of Parasols in the city before the 4th of July, we've decided to make special GREAT REDUCTIONS to move them quick.

WHITE PARASOLS

In plain China Silk or BLACK PARASOLS in Gloria silk, with one ruffle. Special.... \$1.20

SPECIAL FOR \$1.65.

Fine White China Silk Parasols,

SPECIAL FOR \$1.35. ffe, value \$1.85. Special \$1.35 with one ruffle, in White or \$1.50 this week for \$1.50

ENTIRE STOCK OF

Ladies' White Parasols Nobby White Parasol with one ruf- In China Silk, extra nice quality,

CHILDREN'S PARASOLS with 2 ruffles, value \$2.25, \$1.65 of Fine White, Black, or Colored Sunfrom 10 to 20 inches, at shades at Special reduced prices. Immense Variety of Colors, sizes

4th of July.

Hundreds of Nobby Styles in white pique, white duck, linen, silk, brilliantine and serge at lowest prices, to reduce stock before the

Linen Dress Skirts 75c.

BLACK BRILLIANTINE

WHITE DUCK SKIRT.

Large assortment of White PIQUE AND DUCK Dress Skirts nicely lined, Velveteen bound. Value \$2.25, \$1.75 Skirts in Plain, Corded Tucked Effects, from \$1.75 to. Tucked Effects, from \$1.75 \$6.25 etc. Special for \$3.75

SILK STRIPED

Fine line of Nobby Bayadere DRESS SKIRTS

+ BIG SALE OF FANCY WHITE GOODS.

Fresh, pure white summery beauty, in snow-banks of loveliness. NEVER WAS WHITE SO WANTED.

NEVER WERE PATTERNS SO PRETTY.

NEVER WERE PRICES SO LOW.

50 pieces white pin striped dimities, worth 121/2c, this week, 1,000 yards white checked dimities, worth 15c, this week at Hemstitched and Satin Striped Batistes, value 25c, go this

All the Beautiful, Fancy Woven White Goods Novelties. All the Plaid and Satin Striped White Grenadines. White Crepons, and Tucked Effect White Goods

Genuine Imported Pin Dot Swisses, value 35c, this week, per

AT SPECIAL SALE PRICES

The Best and Largest Stock of Wash Goods

At an enormous sacrifice. Lovely 1 mities, Organdies, and Tambour muslins, in dark and light colors, worth 15c and 20c, this week, per yard 110 A variety of wash goods, the largest collection you ever saw at one price; all kinds, every color, newest and most beautiful patterns.

NOTE OUR SPECIALS IN

BOYS' CLOTHING DEPARTMENT

Great slaughter in Boys' and

Children's Straw Hats. Our entire stock reduced

Our line of Gents' Negligee Golf price \$3.75, special Shirts is the most complete in the city. Don't fail to see our styles and prices.

Children's Blouse Waists, white tailored, double seat and knee, ages large sailor collar, embroidered 6 to 15, extra value at \$5, special ruffle, open embroidery work. fine quality, ages 4, 5, 6, 7 and 8. Prices range from

50c, 65c, \$1.00, \$1.25, \$1.50, \$1.75

Men's gauze underwear, shirts | All wool bicycle hose, in fancy and drawers, sizes 32 to 44, special checks. red and blue and fancy 20c each. mixtures, regular price 75c, special

> Boys' Summer Knee Pants Suits in checks, stripes and fancy cloths, ages 4 to 16, fine values, regular

\$2.45 Boys' Sack Suits, assorted fancy

cloths, Italian cloth lining, finely \$3.10

Boys' Reefer Jacket Suits, excel-

lent value at \$2.75, special

\$1.75